9.4.3 Concrete Appurtenances

Unless otherwise specified by the Owner, concrete curbs, parapets, barriers, and dividers should be made structurally continuous. Consideration of their structural contribution to the deck should be limited in accordance with the provisions of Article 9.5.1.

C9.4.3

The following shall replace commentary to C9.4.3.

Caltrans does not rely on concrete appurtenances for strength in the superstructure. In the event that a future modification required removal of the appurtenance, the superstructure capacity would be compromised.

9.5.2 Service Limit States

At service limit states, decks and deck systems shall be analyzed as fully elastic structures and shall be designed and detailed to satisfy the provisions of Sections 5, 6, 7, and 8. Deck slabs shall be designed for Class 2 exposure condition as specified in Article 5.7.3.4.

## 9.7 CONCRETE DECK SLABS

### 9.7.1 General

C9.7.1
C9.7.1.4

9.7.1.4 Edge Support

Unless otherwise specified, at lines of discontinuity, the edge of the deck shall either be strengthened or be supported by a beam or other line component. The beam or component shall be integrated in or made composite with the deck. The edge beams may be designed as beams whose width may be taken as the effective width of the deck specified in Article 4.6.2.1.4.

Where the primary direction of the deck is transverse, ~~and/or the deck is composite with a structurally continuous concrete barrier,~~ no additional edge beam need be provided.

### 9.7.2 Empirical Design

9.7.2.1 General
9.7.2.2 Application

C9.7.2
C9.7.2.1
C9.7.2.2

Empirical design of reinforced concrete decks may ~~be used if…~~not be used.

The durability of empirically designed decks has not yet been proven in high ADTT applications.